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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/740,265	12/17/2003	Patrick N. Matthews	T-6265	1917
34014	7590 10/12/200		EXAM	INER
CHEVRON TEXACO CORPORATION			MCAVOY, ELLEN M	
P.O. BOX 60 SAN RAMO	06 N. CA 94583-0806		ART UNIT	PAPER NUMBER
	,			

DATE MAILED: 10/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/740,265	MATTHEWS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ellen M. McAvoy	1764				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on	_•					
2a)☐ This action is FINAL . 2b)☒ This	action is non-final.					
3) Since this application is in condition for allowan	ce except for formal matters, pro	secution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-19</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-19</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>17 December 2003</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)□ None of:						
 Certified copies of the priority documents 	have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PT∩.413\				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12/17/2003.	5)	atent Application (PTO-152)				
S Patent and Trademark Office						

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Claim Rejections - 35 USC § 102/103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-19 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Colle et al (5,491,269), Colle (6,222,083) and Peiffer et al (6,194,622), considered separately.

Colle et al (5,491,269) [Colle '269] disclose a method for inhibiting the formation of clathrate hydrates in a pipe used to convey petroleum oil or natural gas. For example, flow restrictions arising from partial or complete blockages in a fluid stream can arise as clathrate hydrates adhere to and accumulate along the inside wall of the pipe used to convey the fluid. The method comprises treating the petroleum oil or natural gas fluid inside the pipe with an inhibitor comprising a substantially water soluble polymer produced from a cyclic imino ether. The water soluble polymer may be introduced into the petroleum fluid stream in a carrier solvent which includes water, brine, alcohol, sea water and mixtures thereof. See column 2, line 23 to column 3, line 19. Colle '269 teaches that as the inhibitor solution or mixture is substantially

dissolved in the aqueous phase or dispersed in the fluid stream it reduces the rate that clathrate hydrates are formed, and thereby reducing the tendency for a flow restriction to occur. Although the specific amounts of water in some of the dependent claims is not set forth in the prior art, Colle '269 teaches that any convenient concentration of inhibitor in the carrier solvent can be used. Applicants' method claims differ by not adding the polymer component to the solvent. However, the open-ended claim language "comprising" allows for the addition of the polymer to the water component of the claims. Although the specific system for preventing the formation of hydrate blockage in a flow line is not set forth in the prior art, Colle '269 teaches that the inhibitor mixture is introduced into the aqueous phase of the petroleum fluid using mechanical equipment which is apparent to those skilled in the art. See column 3, lines 35-42.

Colle '083 discloses a method for inhibiting the formation of gas hydrates in a petroleum fluid having hydrate-forming constituents. For example, flow restrictions arising from partial or complete blockages in a fluid stream can arise as gas hydrates adhere to and accumulate along the inside wall of the pipe used to convey the fluid. The method comprises treating the petroleum fluid inside the pipe with an inhibitor comprising substantially water soluble homopolymers and copolymers of N-acyldehydroalanine derivatives. The water soluble polymers may be introduced into the petroleum fluid stream in a carrier solvent which includes water, brine, alcohol, sea water and mixtures thereof. See column 3, line 62 to column 4, line 63. Colle '083 teaches that as the inhibitor solution or mixture is substantially dissolved in the aqueous phase or dispersed in the fluid stream it reduces the rate that gas hydrates are formed, and thereby reducing the tendency for a flow restriction to occur. Although the specific amounts

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of water in some of the dependent claims is not set forth in the prior art, Colle '083 teaches that any convenient concentration of inhibitor in the carrier solvent can be used. Applicants' method claims differ by not adding the polymer component to the solvent. However, the open-ended claim language "comprising" allows for the addition of the polymer to the water component of the claims. Although the specific system for preventing the formation of hydrate blockage in a flow line is not set forth in the prior art, Colle '083 teaches that the inhibitor mixture is introduced into the aqueous phase of the petroleum fluid using mechanical equipment which is apparent to those skilled in the art. See column 4, line 64 to column 5, line 3.

Peiffer et al ["Peiffer"] also disclose a method for inhibiting the formation of gas hydrates in a petroleum fluid having hydrate-forming constituents. The method comprises treating the petroleum fluid inside the pipe with an inhibitor comprising substantially water soluble homopolymers and copolymers of surfactant monomers. The water soluble polymers may be introduced into the petroleum fluid stream in a carrier solvent which includes water, brine, alcohol, sea water and mixtures thereof. See column 3, line 62 to column 4, line 62. Peiffer teaches that as the inhibitor solution or mixture is substantially dissolved in the aqueous phase or dispersed in the fluid stream it reduces the rate that gas hydrates are formed, and thereby reducing the tendency for a flow restriction to occur. Although the specific amounts of water in some of the dependent claims is not set forth in the prior art, Peiffer teaches that any convenient concentration of inhibitor in the carrier solvent can be used. Applicants' method claims differ by not adding the polymer component to the solvent. However, the open-ended claim language "comprising" allows for the addition of the polymer to the water component of the claims.

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Although the specific system for preventing the formation of hydrate blockage in a flow line is not set forth in the prior art, Peiffer teaches that the inhibitor mixture is introduced into the aqueous phase of the petroleum fluid using mechanical equipment which is apparent to those skilled in the art. See column 4, line 63 to column 5, line 2.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicants' disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ellen M. McAvoy whose telephone number is (571) 272-1451. The examiner can normally be reached on M-F (7:30-5:00) with alt. Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on (571) 272-1444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bilen M McAvoy Primary Examiner

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EMcAvoy October 7, 2005